

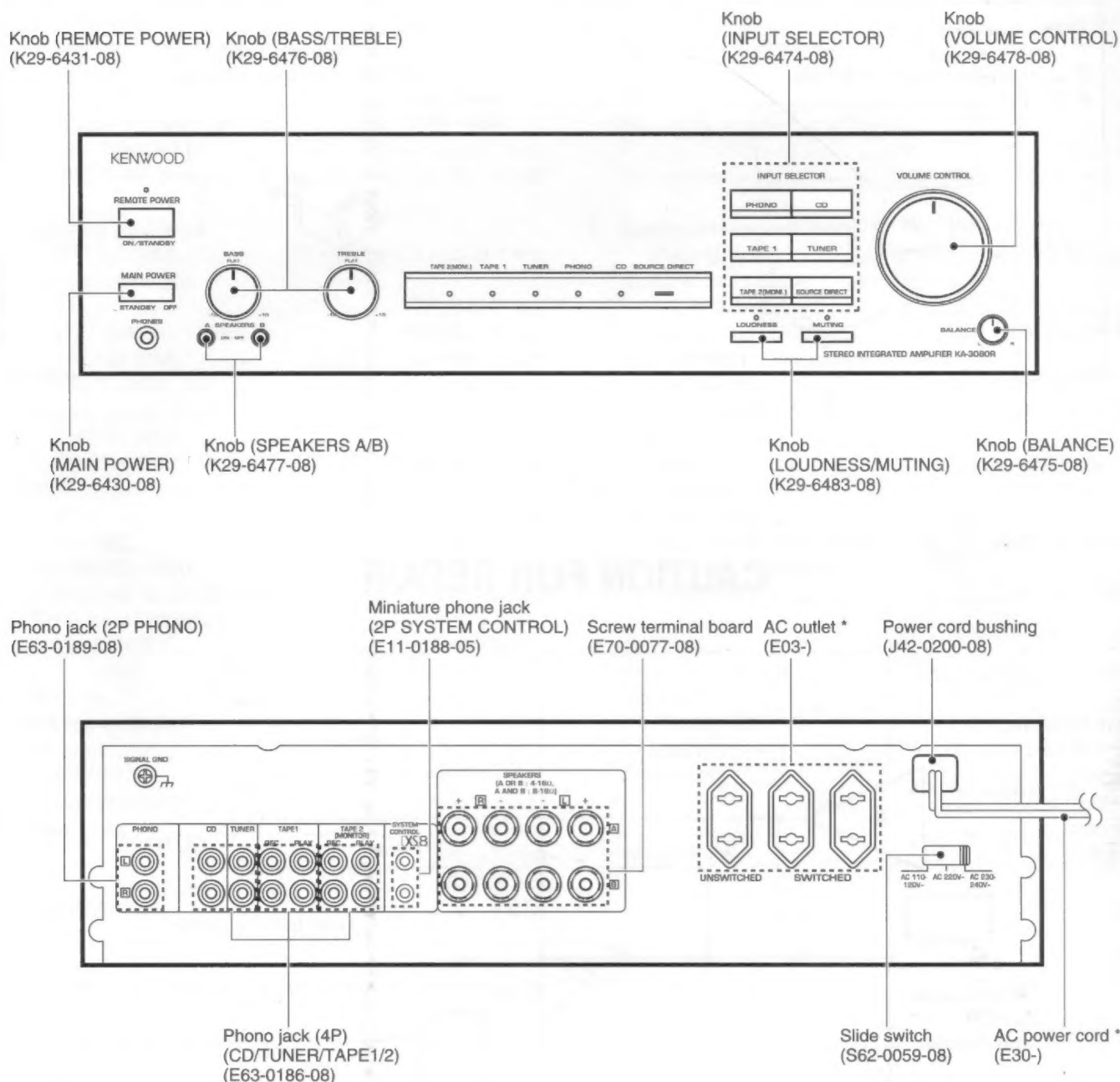
STEREO INTEGRATED AMPLIFIER

KA-3080R

SERVICE MANUAL

KENWOOD

© 1996-4/B51-5145-00 (K/K) 2402



* Refer to parts list on page 16.

Caution: No connection of ground line if disassemble the unit.

Please connect the ground line on rear panel, PCBs, Chassis and some others.

KA-3080R

SPECIFICATIONS

For U.K.

Continuous rated power output

(DIN) 1 kHz	
at 8 Ω	70 W + 70 W
at 4 Ω	100 W + 100 W
(IEC / NF) From 63 Hz to 12,500 Hz, 0.7 % T.H.D.	
at 8 Ω	70 W + 70 W
at 4 Ω	100 W + 100 W

Damping factor42 (50 Hz)

Total harmonic distortion

.....0.06 % (20 Hz ~ 20,000 Hz, 35 W, 8 Ω)
.....0.01 % (1 kHz, 70 W, 8 Ω)

Frequency response (IHF'78)

CD / TUNER / TAPE5 Hz ~ 100 kHz, +0 dB, -3 dB
PHONO 'RIAA' response ..20 Hz ~ 20 kHz, +1.0 dB, -1.0 dB

Maximum input level

PHONO (MM).....120 mV, 0.5% T.H.D. at 1 kHz

Signal to noise ratio

PHONO (MM).....77 dB (IHF '66)
CD / TUNER / TAPE105 dB (IHF '66)
PHONO (MM).....59 dB (DIN, 50 mW output)
CD / TUNER / TAPE61 dB (DIN, 50 mW output)

Input sensitivity / impedance

PHONO (MM).....2.5 mV / 47 k Ω
CD / TUNER / TAPE200 mV / 47 k Ω

TONE control

BASS..... ± 10 dB (at 100 Hz)
TREBLE ± 10 dB (at 10 kHz)

LOUDNESS control

VOLUME at -30 dB level.....+9 dB (at 100 Hz)

Output level / impedance

TAPE REC200 mV / 220 Ω

General

Power consumption200 W

AC outlet

SWITCHED2 (total 200 W max.)
UNSWITCHED.....1 (100 W max.)

DimensionsW : 440 mm

.....H : 123 mm

.....D : 395 mm

Weight (Net)8.0 kg

For other countries

Continuous rated power output

(EIAJ) 1 kHz, 10 % T.H.D.	
at 8 Ω	90 W + 90 W
at 4 Ω	130 W + 130 W
(DIN / IEC)	
at 8 Ω	70 W + 70 W
at 4 Ω	100 W + 100 W

Damping factor42 (50 Hz)

Total harmonic distortion

.....0.06 % (20 Hz ~ 20,000 Hz, 35 W, 8 Ω)
.....0.01 % (1 kHz, 70 W, 8 Ω)

Frequency response (IHF'78)

CD / TUNER / TAPE5 Hz ~ 100 kHz, +0 dB, -3 dB
PHONO 'RIAA' response ..20 Hz ~ 20 kHz, +1.0 dB, -1.0 dB

Maximum input level

PHONO (MM).....120 mV, 0.5% T.H.D. at 1 kHz

Signal to noise ratio

PHONO (MM).....77 dB (IHF '66)
CD / TUNER / TAPE105 dB (IHF '66)

Input sensitivity / impedance

PHONO (MM).....2.5 mV / 47 k Ω
CD / TUNER / TAPE200 mV / 47 k Ω

TONE control

BASS..... ± 10 dB (at 100 Hz)
TREBLE ± 10 dB (at 10 kHz)

LOUDNESS control

VOLUME at -30 dB level.....+9 dB (at 100 Hz)

Output level / impedance

TAPE REC200 mV / 220 Ω

General

Power consumption200 W

AC outlet

SWITCHED2 (total 200 W max.)
UNSWITCHED.....1 (100 W max.)

DimensionsW : 440 mm

.....H : 123 mm

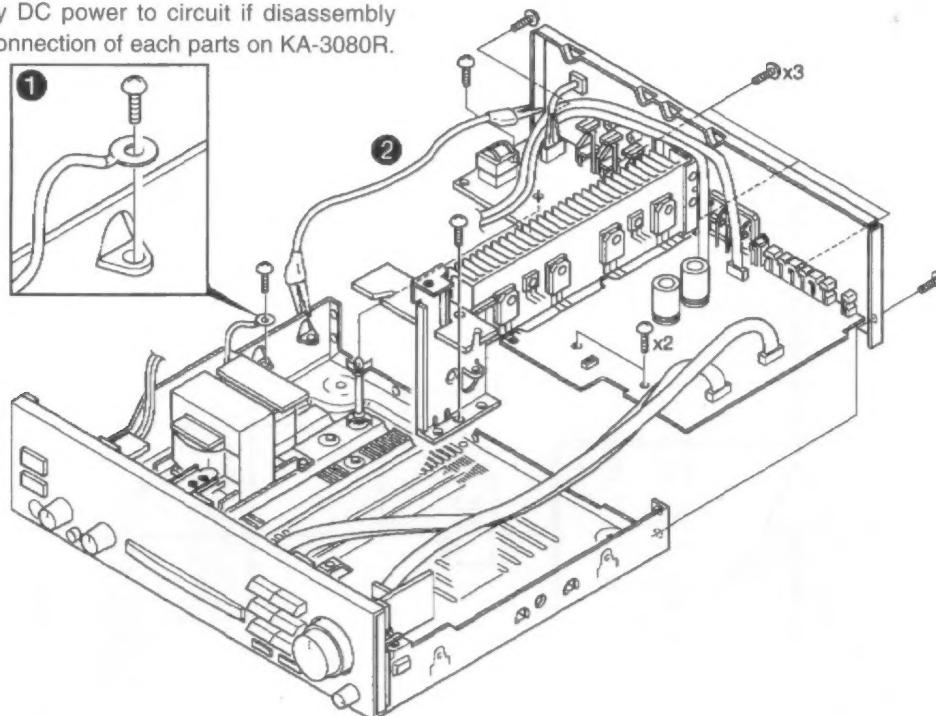
.....D : 395 mm

Weight (Net)8.0 kg

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

CAUTION FOR REPAIR

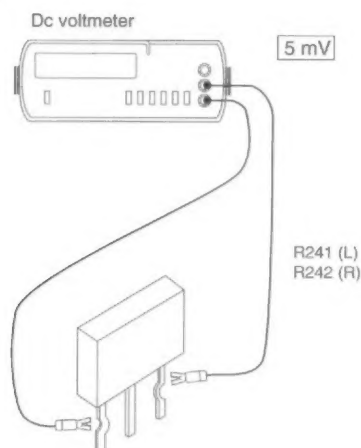
Caution: KA-3080R's circuit design use chassis ground.
Not supply DC power to circuit if disassembly
and non-connection of each parts on KA-3080R.



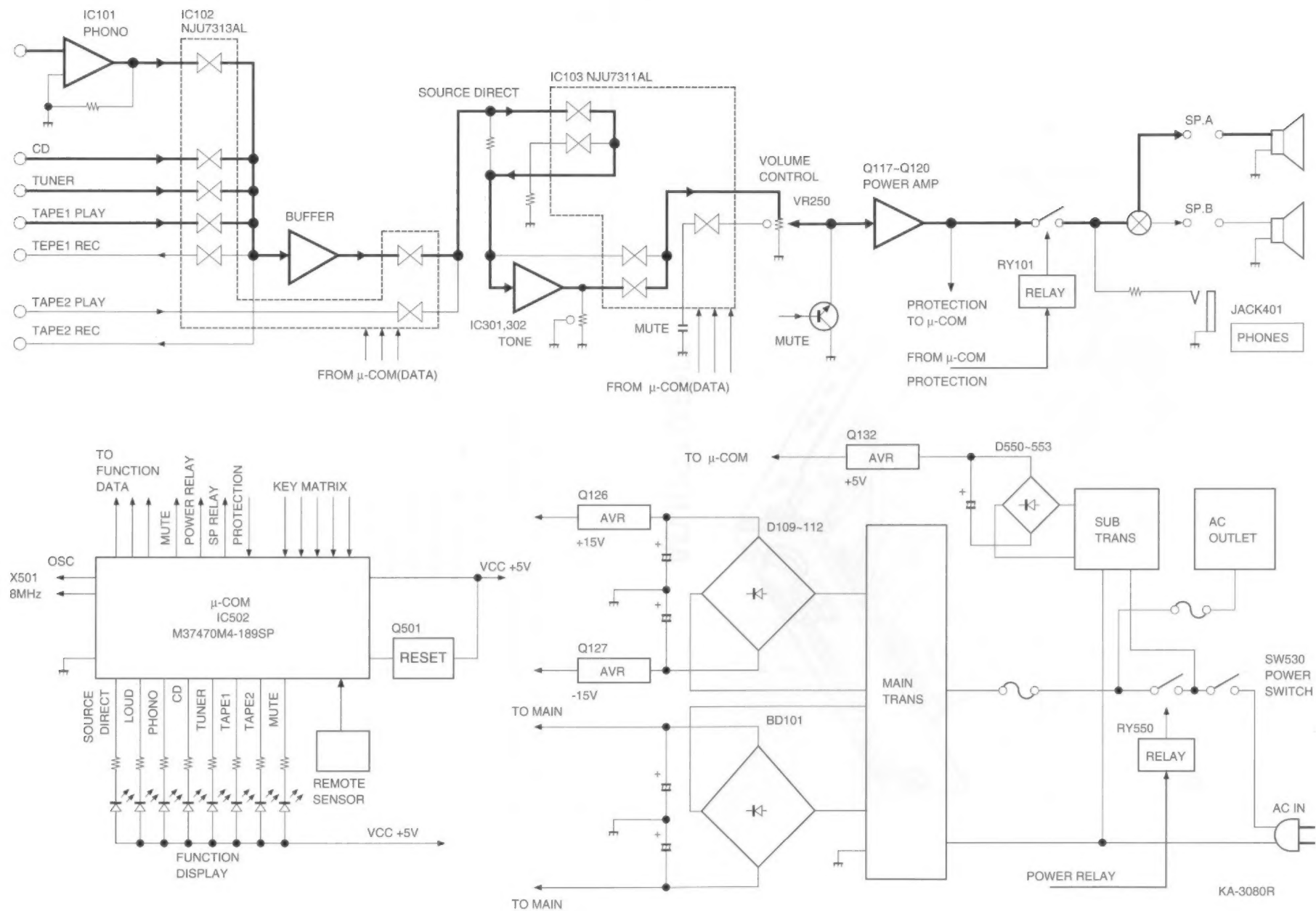
ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, the individual switches should be set as following : POWER : ON SPEAKER : B SELECTOR : PHONO							
1	IDLE CURRENT	—	Connect a DC voltmeter to R241 (Lch), R242 (Rch). (MAIN PCB)	VOLUME : 0	VR101 (L) VR102 (R) (MAIN PCB)	5 mV	(a)

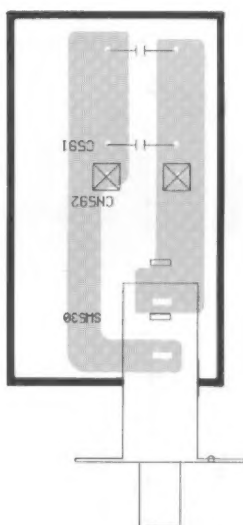
(a)



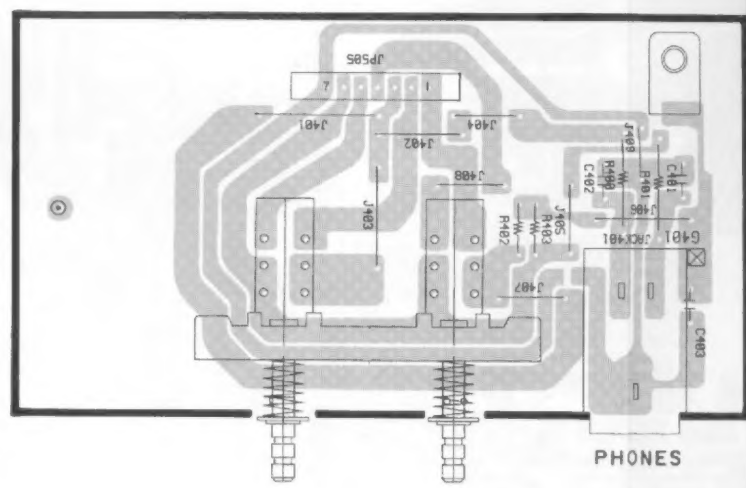
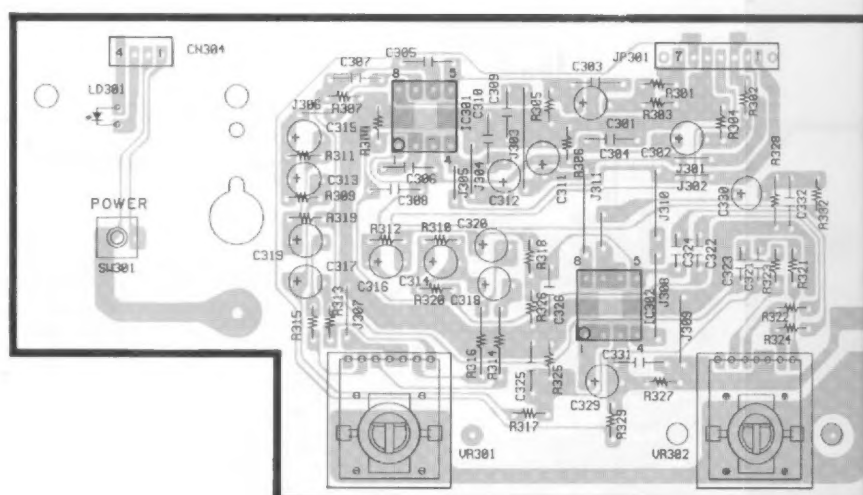
BLOCK DIAGRAM



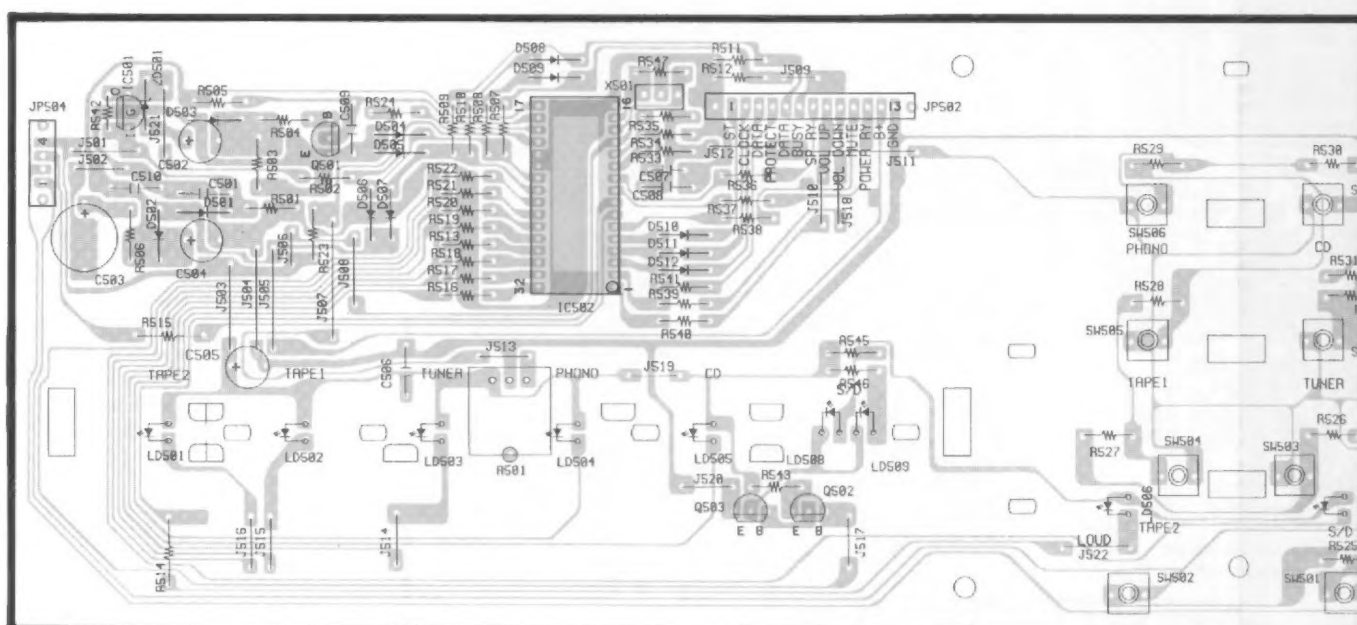
1
2
3
4
5
6
7



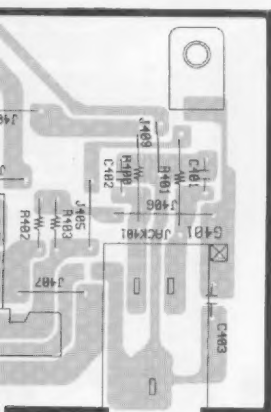
MAIN POWER



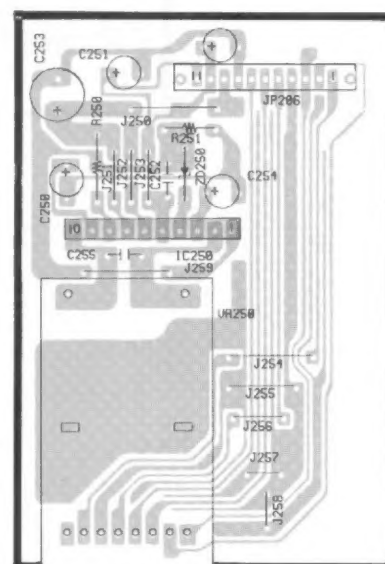
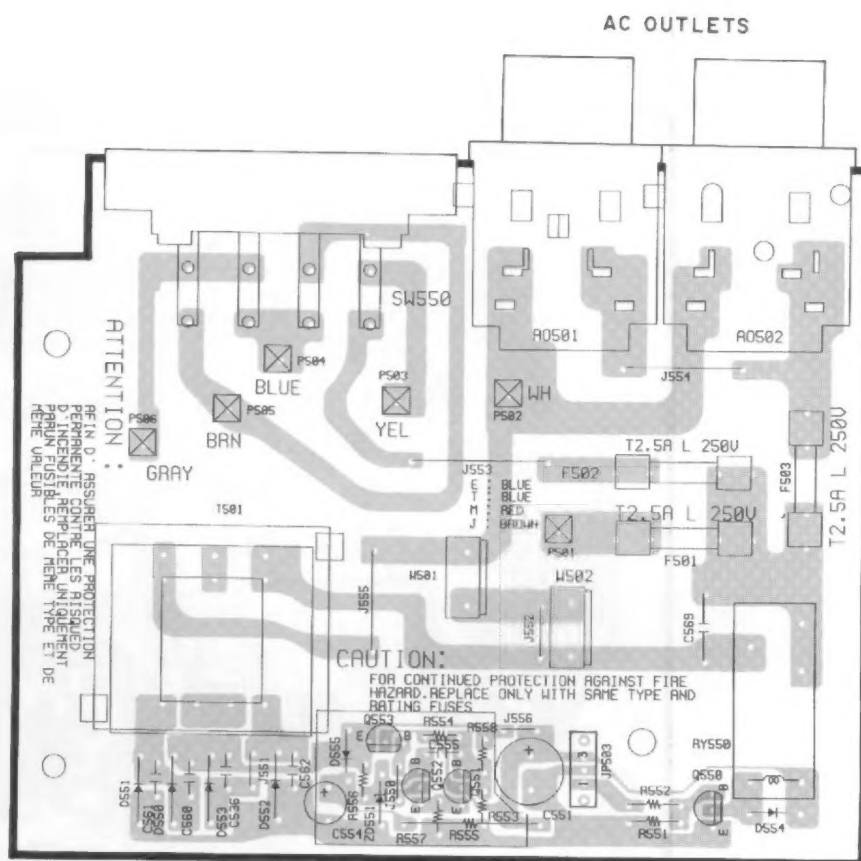
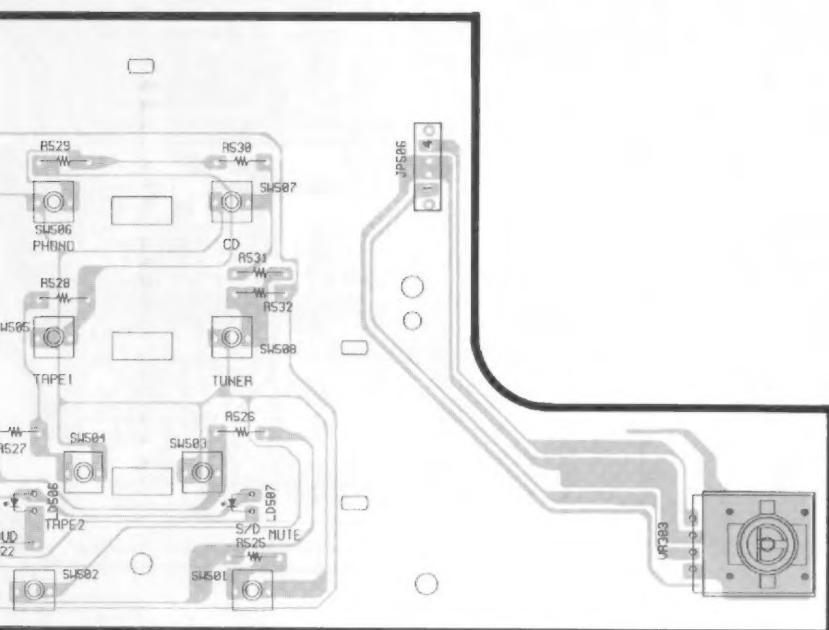
SPEAKERS



Refer to the schematic diagram for the values of resistors and capacitors.

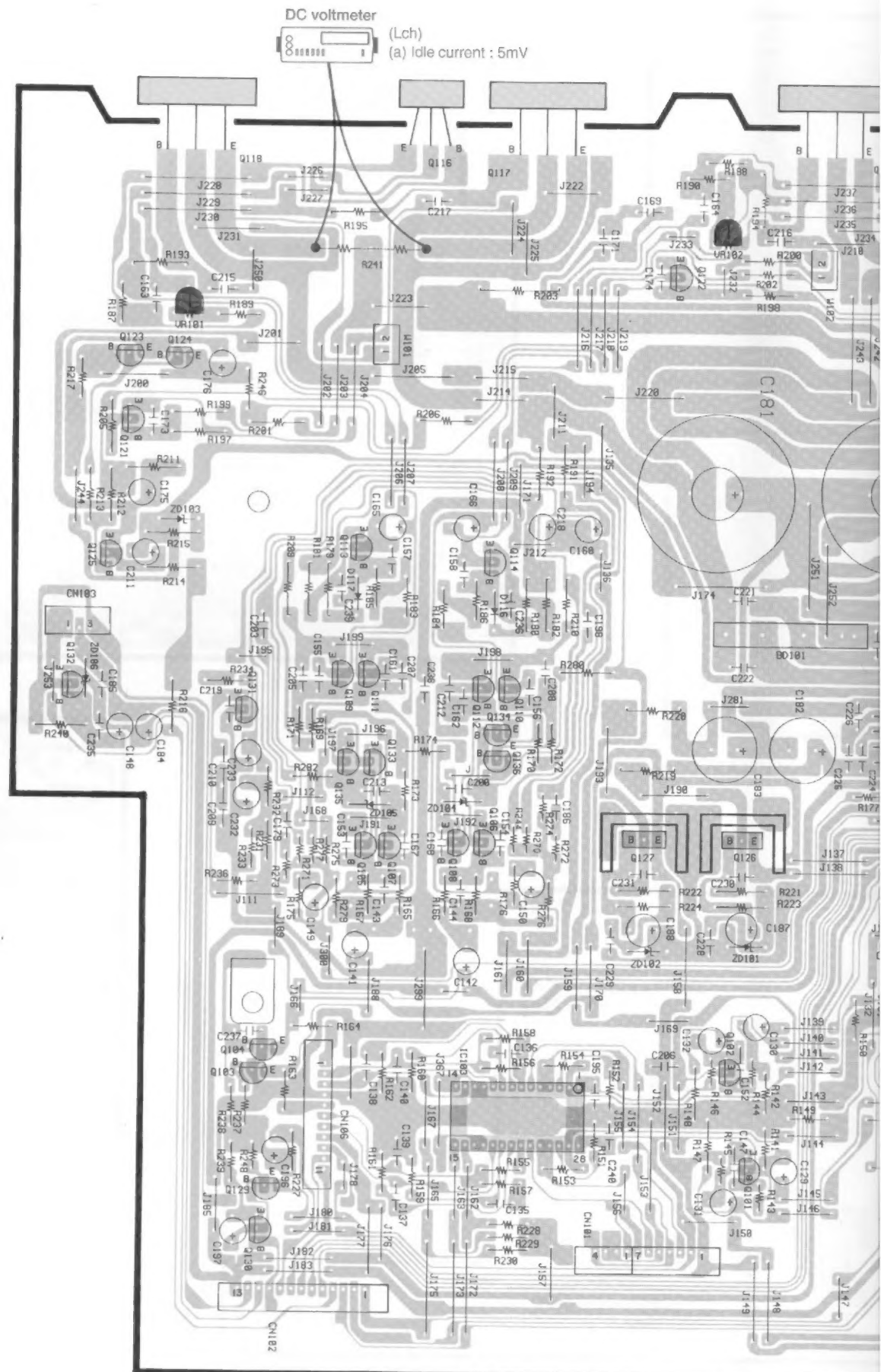


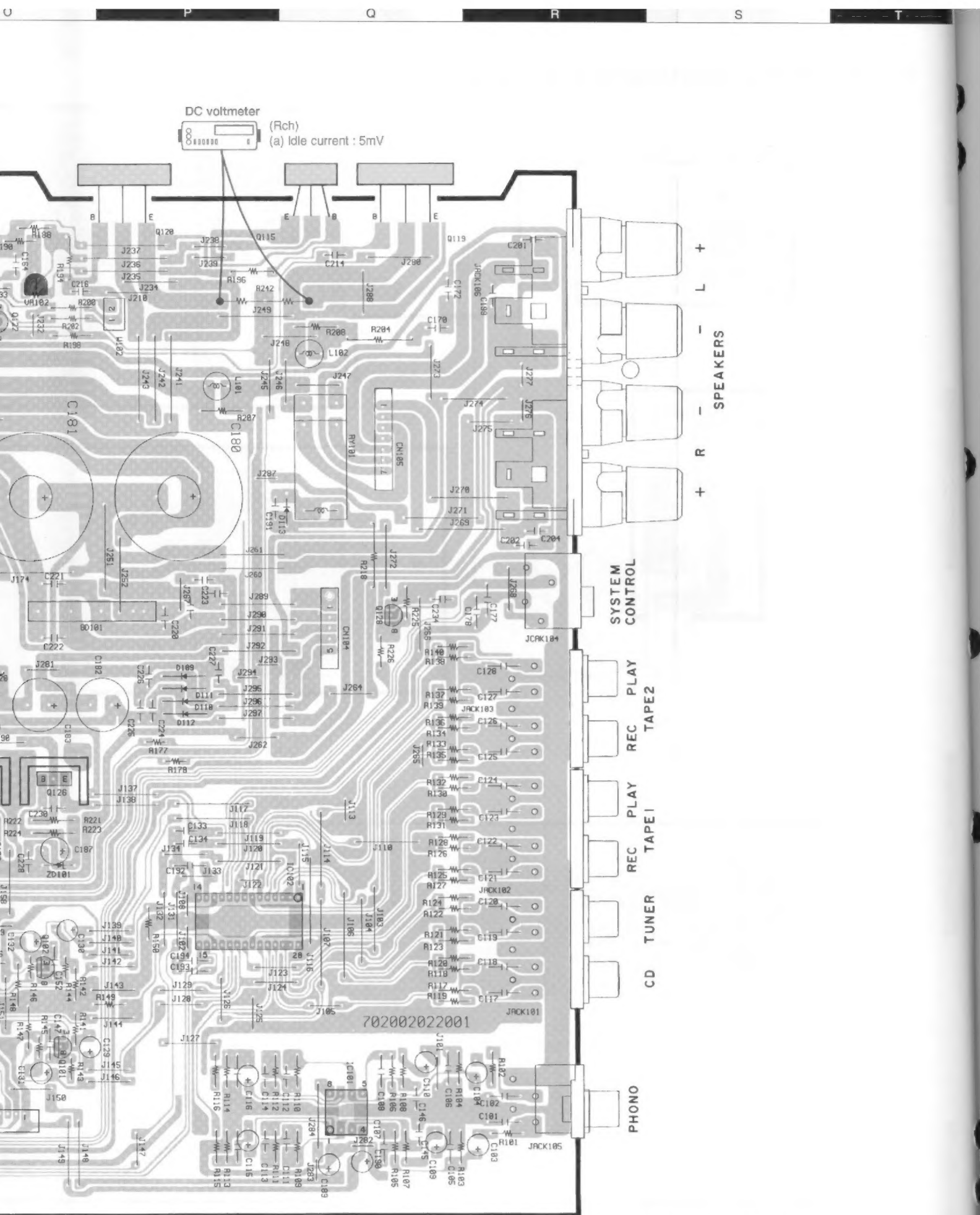
PHONES

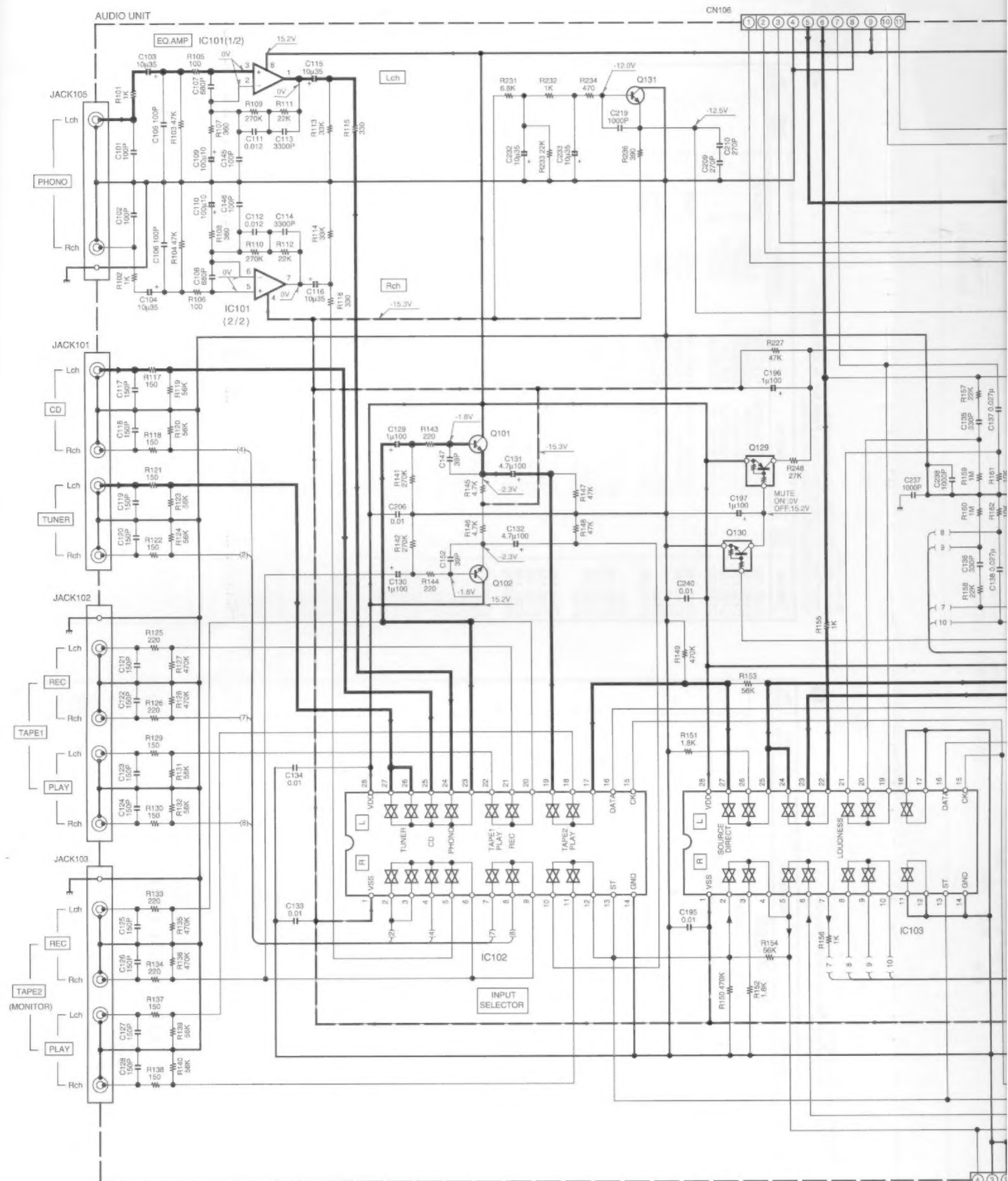


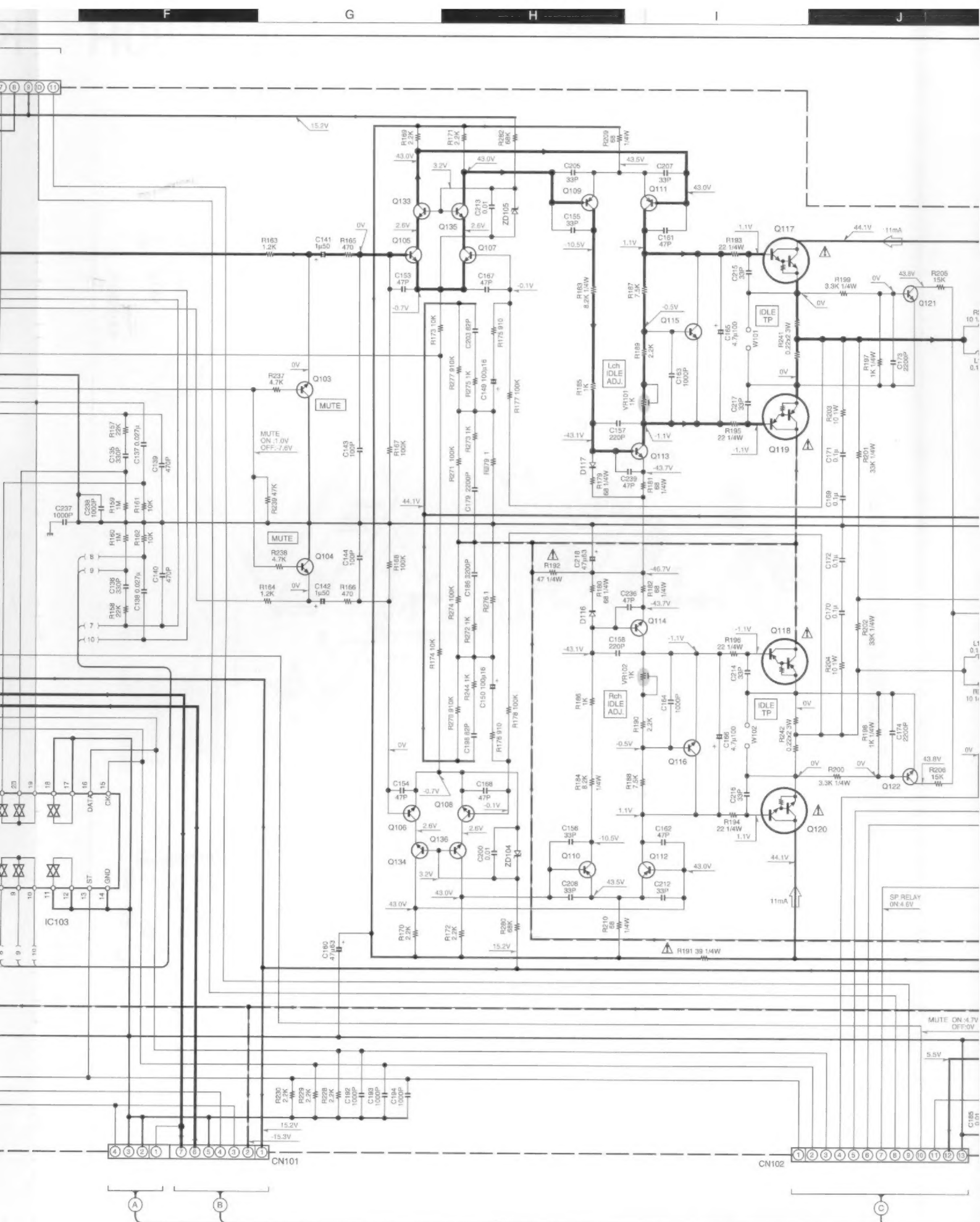
VOLUME
CONTROL

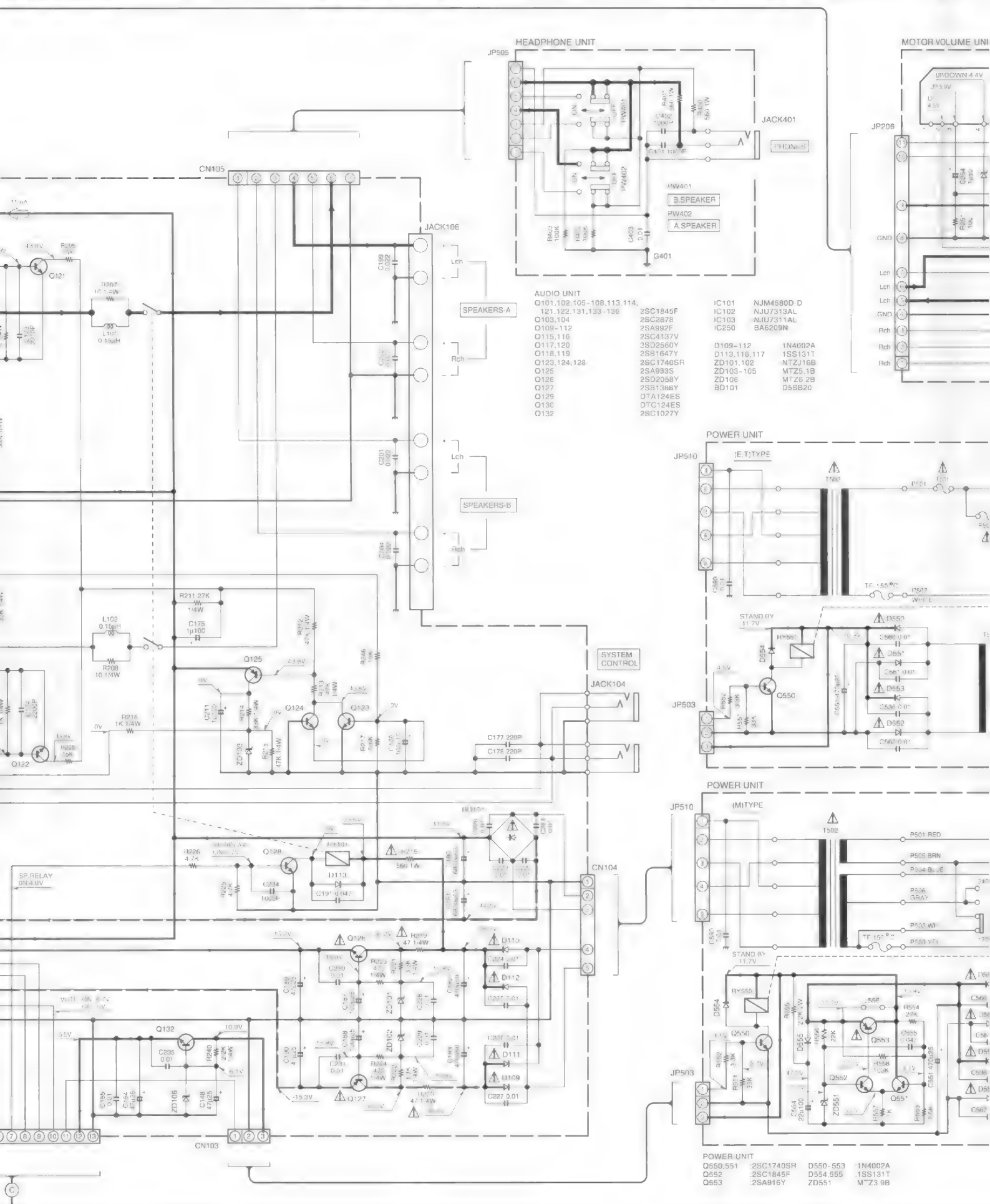
PC BOARD (Component side view)

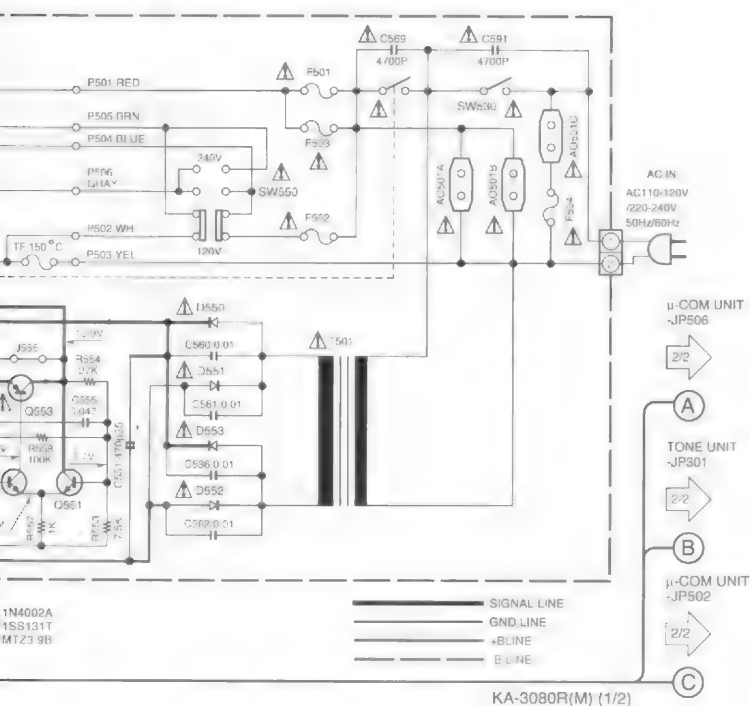
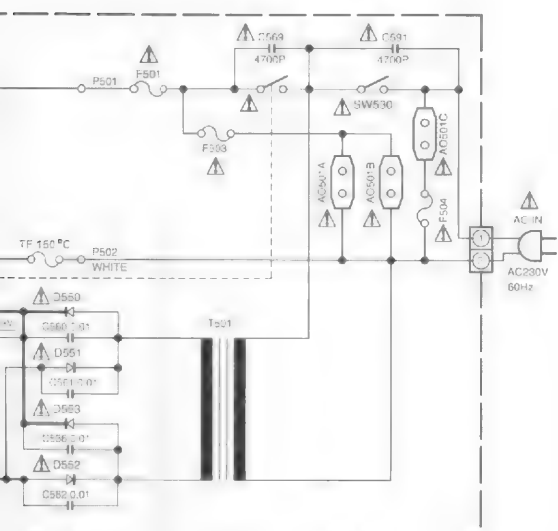
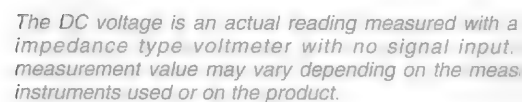




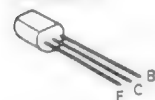




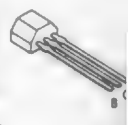




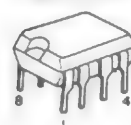
2SC2878



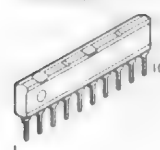
DTA114ES
DTA124ES
DTC114TS
DTC124ES
2SA933S
2SC1740SR



NJM4580D-D



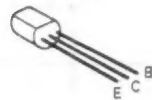
BA6209N



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

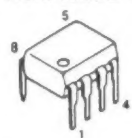
2SC2878



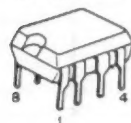
DTA114ES
DTA124ES
DTC114TS
DTC124ES
2SA933S
2SC1740SR



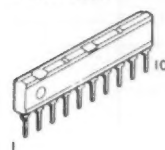
NJM4565D-D



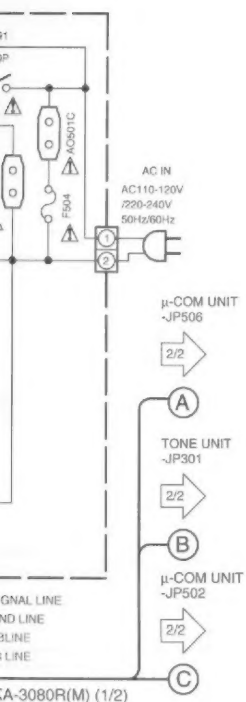
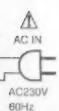
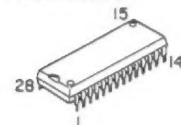
NJM4580D-D



BA6209N



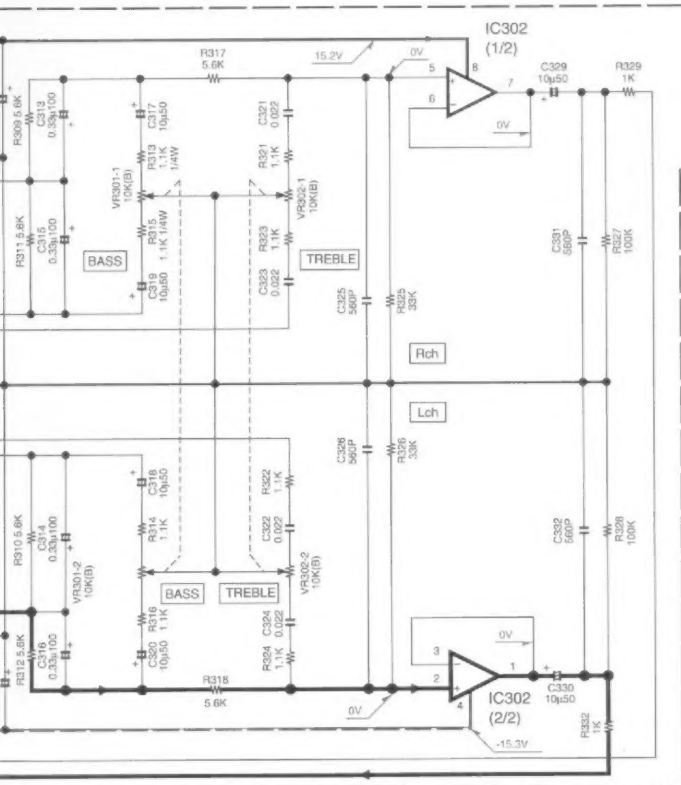
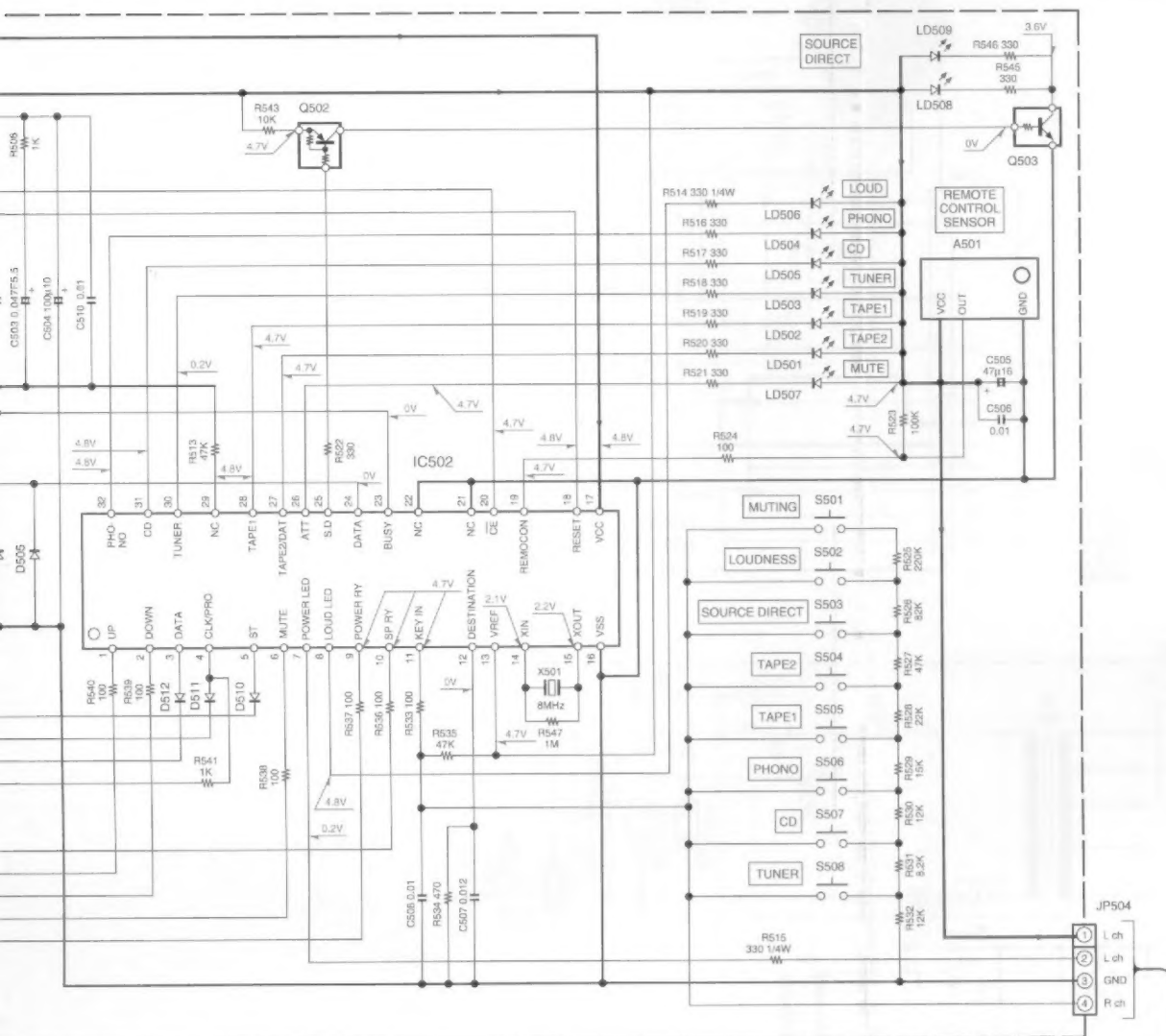
NJU7311AL
NJU7313AL



Y08-5452-70

KA-3080R
KENWOOD





- IC301,302 : NJM4565D-D
 IC501 : KIA7039P
 IC502 : M37470M4-189SP
 Q501 : 2SC1740SR
 Q502 : DTA114ES
 Q503 : DTC114TS
 D501-512 : 1SS131T
 LD301,501-507 : SLR54VR
 LD508,509 : SLB25VR3
 ZD501 : MTZ2.7B

— SIGNAL LINE
 — GND LINE
 — +B LINE
 — -B LINE

KA-3080R(M)2/2

